

A List of Scientific Institutions in the Pacific Area

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INTRODUCTION

THIS LIST of scientific institutions in the Pacific area is presented with the frank hope that, in its way, it will help in the dissemination of knowledge and the exchange of information upon which the friendship of nations and the peace of the world are built. The Editors of *Pacific Science* believe that most scientists, as should all men, seek peace as earnestly as they do truth; and they believe, too, that, with the world as it is now, scientists and teachers—no matter what their disciplines may be—bear much of the burden of hope which the people of the world have placed upon their leaders in their yearning for peace.

The opportunity to exchange ideas and persons, freely and without constraint, is one of the most important elements in understanding either a people or a nation. Any program or action, then, which can facilitate this exchange, is a useful one. Many such programs have already been initiated, and many more of them are contemplated. The admirable policy of exchanging teachers and students among nations; the programs and aspirations of UN, UNESCO, WHO, FAO; the programs of governments (such as that of the Fulbright Act), of international congresses (such as the Seventh Pacific Science Congress in New Zealand next February), of universities and research foundations, of churches and of organized and private charities; the quiet work of individuals, all are contributing, as wars and treaties never can, to understanding and to peace. The mere presentation of this list of scientific institutions in the

Pacific area is a very small step toward this goal, but—if only because no such catalogue has ever been published before—it is felt that the list will be of value to those individuals and institutions throughout the world who may be aided by it in making their larger progress toward that goal.

In the compilation of this list, information was sought direct from sources in each of the countries concerned. Letters of inquiry, asking for the names, addresses, and special qualifications of scientific institutions in each of the countries in the Pacific hemisphere "at which visiting scientists might find the facilities (and the invitation) to pursue research in their particular subjects," were sent to the Embassies, Legations, Consulates, and Information Services, in the United States, of each of the Pacific countries. Identical letters were sent to the Embassies, Legations, Consulates, and Information Services of the United States in each of the countries concerned. Similar requests were sent to the Office of the Director General of UNESCO, Paris, and to the Executive Secretary of the United States National Commission for UNESCO, Department of State, Washington, D. C.

The co-operation received in response to these letters of inquiry was amazing and heartening. Answers were received from almost every office addressed, and the information which was requested was freely given by every country, with one expected and regrettable exception. The list as it is published can be assumed to present, along with the facts which were sought, the good will and the interest of the countries represented in it.

¹ Department of Bacteriology, University of Hawaii; Assistant Editor, *Pacific Science*. Manuscript received May 29, 1948.

The list is a selected one, compiled from the many answers received to the letters of inquiry. It probably presents all of the major scientific institutions now functioning in the countries in and around the Pacific Ocean and undoubtedly presents some of the minor institutions as well. Because it is difficult to appraise national vanity (even among scientists, often among diplomats!), and because of my own ignorance of the stature of these institutions in faraway countries, it is possible that some institutions which are unworthy of the distinction have been added to the list, and it is probable that some which should have had their place in the list have been left out. For these errors of judgment or omissions of fact I alone must be held responsible, the while I hope that increasing knowledge of the countries of the Pacific, the dissemination and use of this list, and the co-operation of scientists throughout the world will help to correct them.

The countries included in the list are arranged alphabetically, and the institutions in each country are also arranged according to their alphabetical order. Each entry presents the name of the institution (in SMALL CAPITALS), its address (in roman type), and—where this information is known, or where it is not already evident from the name of the institution—the special qualifications of the institution, or some descriptive summary of its function (in *italics*). For example:

BERNICE P. BISHOP MUSEUM, Honolulu 35, Hawaii. *Collection, preservation, and study of Hawaiian and Pacific material in ethnology and the natural sciences...*

In the cases of the major universities and some of the research institutions which are equipped with facilities to do research in most of the fields of science, it has not been thought necessary to name each of the departments of the institutions. The word *General* suggests their eminence and their versatility.

On the other hand, the mention of some

specialty for an institution does not necessarily mean that its work is confined entirely to the field of that specialty. The specialty listed means only that, in the opinion of the scientists in that institution, or of the cultural attaché evaluating it, or of myself endeavoring to catalogue it, the word used is the one that seems best to describe the work for which the institution is distinguished. It does not mean that no other work, either in related or in different fields, is done there.

The fact that an institution is placed in this list does not mean, furthermore, that it is ready to accommodate visiting scientists immediately. In every instance, a scientist who wishes to pursue research in some institution other than his own must first make personal and definite arrangement with the institution of his choice in order to be certain that the institution possesses facilities which he might use and that he would have the invitation of the institution (or of the country in which the institution is located) to share its facilities. This injunction is particularly true for institutions in those countries which have recently been afflicted with war, or which are still troubled with civil wars, but it applies to all institutions, wherever they may be. The further difficulties of exchange of persons, of funds, of equipment, are so variable that they cannot be mentioned here, but must be left to the patience and perseverance of the individual scientist to surmount.

Spokesmen for many of the countries whose scientific institutions are represented in this list, and for many of the institutions themselves, have stated that they are very much interested in helping visiting scientists and that they would welcome visitors—"always provided, of course, that space and equipment can be found for them." This is the difficulty in almost every country: the welcome and the good will are readily offered, but the great demands made by their own people upon these institutions place a premium upon laboratory space and equipment that all too often cannot meet even the local needs.

Acknowledgments: The assistance of the staffs of the many diplomatic offices and information services and of UNESCO, who helped to provide the information requested of them, has already been acknowledged in private letters to them, but public acknowledgment is recorded

here. They are too many to name separately, and, in many cases, so anonymous as to be unknown at all, but their assistance has been so valuable that the list should stand rather as testimony to their work than to my own.

AUSTRALIA

AUSTRALIAN CHEMICAL INSTITUTE, 39 Martin Place, Sydney, New South Wales.

AUSTRALIAN INSTITUTE OF ANATOMY, Canberra, A. C. T.

AUSTRALIAN INSTITUTE OF MINING AND METALLURGY, 309 Little Collins Street, Melbourne, Victoria.

AUSTRALIAN MUSEUM (SYDNEY), College Street, Sydney, New South Wales.

AUSTRALIAN NATIONAL MUSEUM, Canberra, A. C. T.

AUSTRALIAN NATIONAL RESEARCH COUNCIL, Science House, 157 Gloucester Street, Sydney, New South Wales.

BAKER INSTITUTE, Alfred Hospital, Melbourne, Victoria.

Medical research.

BUREAU OF MINERAL RESOURCES, GEOLOGY, AND GEOPHYSICS, Chancery House, 485 Bourke Street, Melbourne, C. 1., Victoria.

BUREAU OF SUGAR EXPERIMENT STATIONS, William Street, Brisbane, Queensland.

COMMONWEALTH FORESTRY BUREAU, Canberra, A. C. T.

COMMONWEALTH METEOROLOGICAL BUREAU, Victoria and Drummond Streets, Carlton, Victoria.

COMMONWEALTH OBSERVATORY, Mt. Stromlo, Canberra, A. C. T.

COMMONWEALTH SERUM LABORATORIES, 45 Poplar Street, Parkville, Melbourne, Victoria.

COMMONWEALTH X-RAY AND RADIUM LABORATORY, University of Melbourne, Carlton, N. 3, Victoria.

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH (C. S. I. R.), 314 Albert Street, East Melbourne, C. 2, Victoria. (Inquiries are to be addressed to the Secretary.)

The C. S. I. R. is the largest Commonwealth Government organization, and is extensively subdivided as follows:

ATOMIC PHYSICS RESEARCH, University of Melbourne, Carlton, N. 3., Victoria.

BUILDING MATERIALS RESEARCH, Graham Road, Highett, S. 21, Victoria.

COMMONWEALTH RESEARCH STATION, Merbein, Victoria.

DAIRY RESEARCH SECTION, Lorimer Street, Fishermen's Bend, S. C. 8, Victoria.

DIVISION OF AERONAUTICS, Lorimer Street, Fishermen's Bend, S. C. 8, Victoria.

DIVISION OF ANIMAL HEALTH AND PRODUCTION, Park Street and Flemington Road, Parkville, N. 2, Victoria.

DIVISION OF BIOCHEMISTRY AND GENERAL NUTRITION, University Grounds, Adelaide, South Australia.

DIVISION OF ECONOMIC ENTOMOLOGY, P. O. Box 109, Canberra City, A. C. T.

DIVISION OF ELECTROTECHNOLOGY, National Standards Laboratory, City Road, Chippendale, New South Wales.

DIVISION OF FISHERIES, Box 21, P. O. Cronulla, New South Wales.

DIVISION OF FOOD PRESERVATION AND TRANSPORT, Private Bag, Homebush, New South Wales.

DIVISION OF FOREST PRODUCTS, 69 Yarra Bank Road, South Melbourne, S. C. 4, Victoria.

DIVISION OF INDUSTRIAL CHEMISTRY, Lorimer Street, Fishermen's Bend, S. C. 8, Victoria.

DIVISION OF METROLOGY, National Standards Laboratory, City Road, Chippendale, New South Wales.

DIVISION OF PHYSICS, National Standards Laboratory, City Road, Chippendale, New South Wales.

DIVISION OF PLANT INDUSTRY, P. O. Box 109, Canberra City, A. C. T.

- DIVISION OF RADIOPHYSICS, National Standards Laboratory, City Road, Chippendale, New South Wales.
- DIVISION OF SOILS, Waite Agricultural Research Institute, Private Mail Bag, Adelaide, South Australia.
- FLAX RESEARCH, Graham Road, Highett, S. 21, Victoria.
- INFORMATION SERVICE, 425 St. Kilda Road, Melbourne, S. C. 2, Victoria.
- IRRIGATION RESEARCH STATION, Private Mail Bag, Griffith, New South Wales.
- MINERAGRAPHIC INVESTIGATIONS, c/o Geology School, University of Melbourne, Carlton, N. 3, Victoria.
- ORE DRESSING INVESTIGATION, c/o Metallurgy School, University of Melbourne, Carlton, N. 3, Victoria.
- RADIO RESEARCH BOARD, c/o Electrical Engineering Department, University of Sydney, Chippendale, New South Wales.
- SECTION OF MATHEMATICAL STATISTICS, c/o University of Adelaide, North Terrace, Adelaide, South Australia.
- SECTION OF METEOROLOGICAL PHYSICS RESEARCH, 572 Flinders Lane, Melbourne, C. 1, Victoria.
- SECTION OF PHYSICAL METALLURGY, University of Melbourne, Carlton, N. 3, Victoria.
- SECTION OF TRIBOPHYSICS, University of Melbourne, Carlton, N. 3, Victoria.
- WOOL TEXTILE TECHNOLOGY, 314 Albert Street, East Melbourne, C. 2, Victoria.
- WALTER AND ELIZA HALL INSTITUTE FOR MEDICAL RESEARCH, Royal Melbourne Hospital, Parkville, Melbourne, N. 2, Victoria.
- INSTITUTE OF AGRICULTURE OF THE UNIVERSITY OF WESTERN AUSTRALIA, Nedlands, Western Australia.
- INSTITUTE OF MEDICAL RESEARCH OF NEW SOUTH WALES, Royal North Shore Hospital, St. Leonards, New South Wales.
- KANEMATSU MEMORIAL INSTITUTE OF PATHOLOGY, Sydney Hospital, Sydney, New South Wales.
- MARINE BIOLOGICAL STATION, UNIVERSITY OF SYDNEY, Port Jackson.
- MELBOURNE WOMEN'S HOSPITAL, Swanston Street, Melbourne, N. 3, Victoria.
Pathology.
- MICROBIOLOGICAL LABORATORY, 93 Macquarie Street, Sydney, New South Wales.
- MUNITIONS SUPPLY LABORATORIES, Maribyrnong, Victoria, with branch establishments at Adelaide and Sydney.
- MUSEUM OF TECHNOLOGY AND APPLIED SCIENCE (formerly known as the Sydney Technological Museum), Harris Street, Broadway, Sydney, New South Wales.
- NATIONAL HEALTH AND MEDICAL RESEARCH COUNCIL, Canberra, A. C. T. (Inquiries are to be addressed to the Director-General of Health.)
- NATIONAL MUSEUM (VICTORIA), Swanston Street, Melbourne, Victoria.
- NATIONAL UNIVERSITY OF AUSTRALIA, Canberra, A. C. T. ("This University is now in the course of being built. Details of organization are not yet available, but research departments of medicine and physics are already being established.") [C.S.I.R., Letter, February 20, 1948.]
- PERTH MUSEUM, Beaufort Street, Perth, Western Australia.
- QUEENSLAND MUSEUM, Gregory Terrace and Bowen Bridge Road, Brisbane, Queensland.
- SCHOOL OF MINES, North Terrace, Adelaide, South Australia.
- SCHOOL OF MINES, Ballarat, Victoria.
- SCHOOL OF MINES, Kalgoorlie, Western Australia.
- SOUTH AUSTRALIAN MUSEUM, North Terrace, Adelaide, South Australia.
- TASMANIAN MUSEUM, Macquarie Street, Hobart, Tasmania.
- UNIVERSITY OF ADELAIDE, North Terrace, Adelaide, South Australia.
General.
- UNIVERSITY OF MELBOURNE, Carlton, N. 3, Victoria.
General.
- UNIVERSITY OF QUEENSLAND, George Street, Brisbane, Queensland.
General.
- UNIVERSITY OF SYDNEY, Parramatta Road, Sydney, New South Wales.
General.
- UNIVERSITY OF TASMANIA, Hobart, Tasmania.
General.
- UNIVERSITY OF WESTERN AUSTRALIA, Nedlands, Western Australia.
General.

STATE GOVERNMENTS AND DEPARTMENTS: "Each of the six State Governments of Australia maintains scientific departments or sub-departments which deal largely with scientific problems arising within the State, and which also carry out a considerable amount of routine and other scientific work associated with the laws and regulations of the State. Thus, in each of the States, there is a Department of Agriculture; a Forest Service; a Department of Main Roads; a Mines Department; a Lands Department; and Government Chemical Laboratories, etc. These bodies can render assistance in specialized fields, but direct approach to them would be desirable in all cases." [C.S.I.R., Letter, February 20, 1948.]

Mr. J. E. Cummins, Officer-in-Charge of the Information Service of the Council for Scientific and Industrial Research, writes that "it is not possible to express an opinion as to whether each of the institutions or departments [included in this list for Australia] would be able to provide accommodation for visiting scientists. Unfortunately, the facilities for research in some of the scientific institutions are very limited, and, depending upon the time of visit

and the period of this, a definite decision could not be made as a general statement. However, I am sure that all of the Australian research institutions listed would be only too pleased to do their utmost to provide assistance.

"In the specific case of the C.S.I.R. . . the Executive Committee of the Council have informed me that they would be glad to welcome visiting scientists in any of their laboratories and would be only too pleased to make facilities available for them. May I suggest, therefore, that . . . intending visitors should make direct enquiries before visiting Australia and while their plans are still in the formative stage."

This information was received from the Information Service of the Council for Scientific and Industrial Research of the Commonwealth of Australia, 425 St. Kilda Road, Melbourne, S. C. 2, through the assistance of the Scientific Liaison Office of the Australian Embassy, Washington, D. C.; from the British Consulate, Honolulu, T. H.; from the British Information Services, New York; from the American Embassy, Canberra, Australia; and from UNESCO, Paris. February–April, 1948.

BRITISH MALAYA

BOTANICAL GARDENS, Singapore.

COLLEGE OF AGRICULTURE, Kuala Lumpur.

INSTITUTE FOR MEDICAL RESEARCH, Kuala Lumpur.

KING EDWARD VII COLLEGE OF MEDICINE, Singapore.

RAFFLES COLLEGE, Singapore.
General.

RAFFLES MUSEUM AND LIBRARY, Singapore.

Anthropology, archaeology, botany, and zoology of Malaysia.

RUBBER RESEARCH INSTITUTE, Kuala Lumpur.

This information was received from the American Consulate General, Singapore. March, 1948.

CANADA

FISHERIES EXPERIMENTAL STATION, 898 Richards Street, Vancouver, B. C.

Fisheries technology.

PACIFIC BIOLOGICAL STATION, Nanaimo, B. C.

Fisheries, marine biology, oceanography.

UNIVERSITY OF ALBERTA, Edmonton, Alberta.

General.

UNIVERSITY OF BRITISH COLUMBIA, Vancouver, B. C.

Agriculture, bacteriology, biophysics, geology, geophysics, marine algae and oceanography, nuclear physics, preventive medicine, spectroscopy.

UNIVERSITY OF MANITOBA, Winnipeg, Manitoba.

Botany, chemistry, geology, zoology.

UNIVERSITY OF SASKATCHEWAN, Saskatoon, Saskatchewan.

Physical chemistry, medicine, physics.

This information was received from the University of British Columbia, Vancouver, B. C., and from the National Research Council of Canada, through the Canadian (N. R. C.) Scientific Liaison Office, Washington, D. C. January–April, 1948.

CANAL ZONE

CANAL ZONE BIOLOGICAL AREA (formerly Barro Colorado Island Biological Laboratory), Balboa, Canal Zone.

Biological research.

CANAL ZONE BRANCH, BUREAU OF ENTOMOLOGY, U. S. DEPARTMENT OF AGRICULTURE, Balboa, Canal Zone.

CANAL ZONE EXPERIMENT GARDENS, Pedro Miguel, Canal Zone.

Botanical research.

This information was received from the American Embassy, Panama, R. P., and from UNESCO, Paris. January–April, 1948.

CHILE

AMERICAN SOCIETY OF AGRICULTURAL SCIENCES, CHILEAN CHAPTER, Departamento de Genetica Fitotecnica, Ministerio de Agricultura, Santiago.

INSTITUTO BACTERIOLOGICO DE CHILE, Borgoño 1470, Santiago.

INSTITUTO BIOLOGICO Y ESTACION EXPERIMENTAL DE LA SOCIEDADE NACIONAL DE AGRICULTURA, F. Lazcano 1502, Santiago.

INSTITUTO PANAMERICANO DE INGENIERIA DE MINAS Y GEOLOGIA, Casilla 9228, Calle Austinas 1111, Santiago.

MUSEO ARAUCANO, Temuco.

MUSEO NACIONAL DE HISTORIA NATURAL, Quinta Normal, Santiago.

OBSERVATORIO ASTRONOMICO, El Bosque, Cisterna, Santiago.

UNIVERSIDAD CATOLICA DE CHILE, Santiago.
Astronomy, biological and physical sciences, mathematics, medicine.

UNIVERSIDAD DE CHILE, Santiago.
Biological and physical sciences, mathematics, marine biology, medicine, seismology.

UNIVERSIDAD DE CONCEPCION, Concepcion.
Mathematics, medicine, physical sciences.

This information was received from the Embassy of Chile, Washington, D. C.; from the American Embassy, Santiago; and from UNESCO, Paris. February–April, 1948.

CHINA

ACADEMIA SINICA, Nanking.
Astronomy, geology, meteorology.

ACADEMIA SINICA, Shanghai.
Botany, chemistry, engineering, mathematics, medicine, physics, psychology, zoology.

AURORA UNIVERSITY, Shanghai.
Medicine, science and engineering; Le Musée Heude.

CATHOLIC UNIVERSITY OF PEIPING, Peiping.
Anthropology, biology, chemistry, physics, science.

CHINA GEOGRAPHICAL RESEARCH INSTITUTE, Nanking.

CHINESE ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE [formerly Science Society of China], 235 Shensi Road (South), Shanghai.

CHINESE CHEMICAL SOCIETY, c/o National Central University, Nanking.

CHINESE MEDICAL ASSOCIATION, 41 Tzeki Rd., Shanghai.

CHINESE PHYSICAL SOCIETY, c/o National Academy of Peiping, Peiping.

CHINESE PUBLIC HEALTH ASSOCIATION, 179 Pei Hsia Road, Nanking.

GEOLOGICAL SOCIETY OF CHINA, 942 Chukiang Road, Nanking.

LINGNAN UNIVERSITY, Canton.
Agriculture, biology, chemistry, medicine, physics, science and engineering.

NATIONAL ACADEMY OF PEIPING, Peiping.
Botany, chemistry, geology, physics, physiology, zoology.

NATIONAL ACADEMY OF PEIPING, Shanghai.
Materia medica, radium.

NATIONAL ACADEMY OF PEIPING, Wukang, Shensi.

Botanical survey of northwest China.

NATIONAL AMOY UNIVERSITY, Amoy.
Fisheries, oceanography, science and engineering.

- NATIONAL ANWHEI UNIVERSITY, Anking.
Agriculture, science.
- NATIONAL CENTRAL UNIVERSITY, Nanking.
General.
- NATIONAL CHANGCHUN UNIVERSITY, Chungchun.
Agriculture, engineering, medicine.
- NATIONAL CHEKIANG UNIVERSITY, Hangchow.
Agriculture, engineering, science.
- NATIONAL CHIAO TUNG UNIVERSITY, Shanghai.
Engineering, science.
- NATIONAL CHI NAN UNIVERSITY, Shanghai.
Science.
- NATIONAL CHUNG CHEN UNIVERSITY, Nanchang, Kiangsi.
Agriculture, engineering, medicine, science.
- NATIONAL CHUNGKING UNIVERSITY, Chungking.
Arts and science, engineering, medicine.
- NATIONAL FUH TAN UNIVERSITY, Shanghai.
Agriculture, science.
- NATIONAL HONAN UNIVERSITY, Kaifeng.
Agriculture, engineering, medicine, science.
- NATIONAL HUNAN UNIVERSITY, Changsha.
Engineering, science.
- NATIONAL KWANGSI UNIVERSITY, Kweilin.
Agriculture, science and engineering.
- NATIONAL KWEICHOW UNIVERSITY, Kweiyang.
Agriculture, arts and science, engineering.
- NATIONAL LANCHOW UNIVERSITY, Lanchow.
Arts and science, medicine, veterinary medicine.
- NATIONAL NAKAI UNIVERSITY, Tientsin.
Science.
- NATIONAL NORTHEASTERN UNIVERSITY, Mukden.
Agriculture, engineering, science.
- NATIONAL NORTHWESTERN UNIVERSITY, Sian, Shensi.
Medicine, science.
- NATIONAL PEI YANG UNIVERSITY, Tientsin.
Engineering, science.
- NATIONAL PEKING UNIVERSITY, Peiping.
General.
- NATIONAL SHANGHAI MEDICAL COLLEGE, Shanghai.
Biochemistry, medicine, pathology, pharmacology.
- NATIONAL SHANSI UNIVERSITY, Taiyuan.
Engineering, medicine.
- NATIONAL SHANTUNG UNIVERSITY, Tsingtao.
Agriculture, engineering, medicine, oceanography, science.
- NATIONAL SUNYATSEN UNIVERSITY, Canton.
General.
- NATIONAL SZECHWAN UNIVERSITY, Chengtu.
Agriculture, science and engineering.
- NATIONAL TAIWAN UNIVERSITY, Taipei.
Agriculture, engineering, medicine, science.
- NATIONAL TSING HUA UNIVERSITY, Peiping.
General.
- NATIONAL TUNG CHI UNIVERSITY, Shanghai.
Engineering, medicine.
- NATIONAL WUHAN UNIVERSITY, Wuchang.
General.
- NATIONAL YIN SHIH UNIVERSITY, Kinghua, Chekiang.
Agriculture, arts and science, engineering.
- NATIONAL YUNAN UNIVERSITY, Kunming.
Agriculture, engineering, medicine, science.
- NATURAL SCIENCE SOCIETY OF CHINA, c/o National Central University, Nanking.
- PEIPING UNION MEDICAL COLLEGE, Peiping.
Medicine, public health.
- UNIVERSITY OF NANKING, Nanking.
Agriculture, science.
- UNIVERSITY OF SHANGHAI, Shanghai.
Science.
- YENCHING UNIVERSITY, Peiping.
Science.

The information for this selected list was received through the American Embassy at Nanking, China, from the office of Dr. Han Ch'ing-lien, Director of the Department of Cultural Relations of the Ministry of Education in Nanking. The very great number of scientific institutions in China makes it impossible to include all of them in this presentation: only the major institutions—most of the national universities and some of the established private universities and scientific associations — have been listed here. The special qualifications noted for them are generalizations based upon the colleges, institutes, or departments which Dr. Han's office has indicated are found at the respective institutions. In the cases of the largest universities, which possess most of the facilities and curricula offered by large universities the world over, the word *General* has been used to denote this fact.

Further information about the institutions listed here, or about the numerous smaller colleges and provincial universities, societies, and institutes throughout China which are not considered in this list, can be obtained from the helpful office of Dr. Han Ch'ing-lien in Nanking.

COLOMBIA

- CENTRO NACIONAL DE INVESTIGACIONES DEL CAFE, Chinchiná, Caldas.
Coffee technology.
- COLLEGIO DE SAN JOSE, Medellin, Antioquia.
General; Museum of Natural Sciences.
- DEPARTAMENTO DE TIERRAS, Ministerio de la Economia Nacional, Bogotá.
Forestry and soil conservation.
- DEPARTAMENTO TECNICO DE LA FEDERACION NACIONAL DE CAFETEROS, Bogotá.
Coffee technology.
- DIVISIONES TECNICAS, Ministerio de Higiene, Bogotá.
Public health.
- ESCUELA NACIONAL DE MINAS, Medellin, Antioquia.
Mining and associated sciences.
- ESCUELA NORMAL SUPERIOR, Bogotá.
General.
- ESTACION AGRICOLA EXPERIMENTAL DE ARMERO, Armero, Tolima.
Agricultural research.
- ESTACION AGRICOLA EXPERIMENTAL DE PALMIRA, Palmira, Valle.
Agricultural research.
- ESTACION AGRICOLA EXPERIMENTAL DE SEVILLA, Sevilla, Magdalena.
Agricultural research.
- FACULTAD DE AGRONOMIA DE LA UNIVERSIDAD NACIONAL, Medellin, Antioquia.
Agronomy, agriculture.
- GRANJA GANADERA DE MONTERIA, Monteria, Bolivar.
Veterinary parasitology.
- INSTITUTO DE BIOLOGIA, Departamento Nacional de Agricultura, Instituto Ciencias Naturales de la Ciudad Universitaria, Apartado Postal 2535, Bogotá.
Botany, entomology, phytopathology.
- INSTITUTO DE CIENCIAS NATURALES DE LA UNIVERSIDAD NACIONAL DE COLOMBIA, Ciudad Universitaria, Apartado Postal 2535, Bogotá.
Botany, entomology, ornithology.
- INSTITUTO DE ESTUDIOS ESPECIALES "CARLOS FINLAY," Bogotá.
Medical entomology, virology.
- INSTITUTO DE LA SALLE, Apartado 475, Bogotá.
Natural sciences.
- INSTITUTO DE MALARIOLOGIA, Bogotá.
Malariology, parasitology.
- INSTITUTO GEOFISICO DE LOS ANDES COLOMBIANOS, Apartado 270, Bogotá.
Geophysics, meteorology.
- INSTITUTO NACIONAL DE HIGIENE "SAMPER MARTINEZ," Bogotá.
Chemotherapeutics, pharmacology, public health.
- LABORATORIO CENTRAL DE INVESTIGACION DE LEPROA, Bogotá.
Leprosy.
- LABORATORIO CUP (CESAR URIBE PIEDRAHITA), Bogotá.
Bacteriology, chemistry, parasitology, pharmacodynamics.
- LABORATORIO QUIMICO NACIONAL DE ANALISIS E INVESTIGACION, Ministerio de Minas y Petróleos, Bogotá.
Geochemistry, geophysics.
- OBSERVATORIO ASTRONOMICO NACIONAL, Bogotá.
Astronomy, meteorology.
- UNIVERSIDAD DE ANTIOQUIA, Apartado 217, Medellin, Antioquia.
General.
- UNIVERSIDAD NACIONAL DE COLOMBIA, Ciudad Universitaria, Bogotá.
General.

This list was selected from a *Directorio Científico Colombiano*, prepared by Dr. Enrique Perez Arbelaez at the direction of the Ministry of National Education, Colombia, and sent to us by the American Embassy, Bogotá, in January, 1948.

COSTA RICA

DEPARTAMENTO NACIONAL DE AGRICULTURA,
San José.

Agriculture, botany.

INSTITUTO INTERNACIONAL DE CIENCIAS AGRI-
COLAS, Turrialba.

Agricultural research.

INSTITUTO NACIONAL GEOGRAFICO, San José.

UNIVERSIDAD DE COSTA RICA, San José.
General.

This information was received from the Em-
bassy of Costa Rica, Washington, D. C.; from
the American Embassy, San José; and from
UNESCO, Paris. February–April, 1948.

ECUADOR

UNIVERSIDAD CATOLICA, Quito.

UNIVERSIDAD CENTRAL, Quito.

UNIVERSIDAD DE CUENCA, Cuenca.

UNIVERSIDAD DE GUAYAQUIL, Guayaquil.

UNIVERSIDAD DE LOJA, Loja.

This information was received from the Em-
bassy of Ecuador, Washington, D. C., and from
the American Embassy, Quito. January, 1948.

FIJI ISLANDS

AGRICULTURAL DEPARTMENT, Fiji Government,
Suva. (Address the Director of Agriculture.)

["Office accommodation and library facili-
ties...for one or two visiting scientists
who are not concerned with laboratory
studies..."]

MEDICAL DEPARTMENT, Fiji Government, Suva.
(Address the Director of Medical Services.)

CENTRAL LEPROSY HOSPITAL, Makogai.

PATHOLOGICAL LABORATORY, Suva.

["Facilities...can readily be expanded
to meet the requirements of special
research projects. Visiting research
workers would be welcome so far as
limitations of space allow..."]

TUBERCULOSIS HOSPITAL, Tamavua.

This information was received from the Director
of Agriculture and from the Director of Med-
ical Services, Fiji Government, Suva, through
the American Consulate, Suva; and from the
British Consulate, Honolulu, T. H. February–
March, 1948.

GUATEMALA

DIRECCION GENERAL DE AGRICULTURA, De-
partamentos de Sanidad Vegetal y Plantas
Medicinales, Guatemala City.

INSTITUTO DE MINERIA E HIDROCARBUROS,
Guatemala City.

Mining, soil science.

JARDIN BOTANICO, Paseo "La Reforma," Gua-
temala City.

OBSERVATORIO NACIONAL METEOROLOGICO, La
Aurora.

Meteorology.

SOCIEDAD DE GEOGRAFIA E HISTORIA, Guate-
mala City.

This information was received from the Guate-
malan Embassy, Washington, D. C., and from
UNESCO, Paris. January–April, 1948.

HONDURAS

ASOCIACION MEDICA HONDURENA, Tegucigalpa.

Medical research.

ASOCIACION DE QUIMICA Y FARMACIA DE HONDURAS, Tegucigalpa.

Chemistry and pharmacology.

LANCETILLA EXPERIMENT STATION OF THE TELA RAILROAD COMPANY, La Lima.

USDA and United Fruit Company research in rubber and other plant crops.

SOCIEDAD DE ANTROPOLOGIA, Tegucigalpa.

Anthropology.

SOCIEDAD DE GEOGRAFIA E HISTORIA DE HONDURAS, Avenida Cervantes, Tegucigalpa.

Geography and history.

This information was received from the Honduran Ministry of Education, through the American Embassy, Tegucigalpa, and from UNESCO, Paris. January–April, 1948.

INDO-CHINA

ECOLE FRANCAISE D'EXTREME-ORIENT, 26 Boulevard Carreau, Hanoi.

Anthropology, archaeology, ethnology.

INSTITUT DE BIOLOGIE, Saigon.

INSTITUT OCEANOGRAPHIQUE DE NHATRANG, Nhatrang, Annam.

INSTITUT PASTEUR, in Dalat, Hanoi, Nhatrang, and Saigon.

Medicine, public health.

INSTITUT DE RECHERCHES AGRONOMIQUE DE SAIGON, 58 Rue du Docteur Angier, Saigon.

STATION D'ESSAI D'AGRICULTURE, Blas.

UNIVERSITE DE HANOI, 11 Boulevard Bobillot, Hanoi.

General.

UNIVERSITE DE SAIGON, Saigon.

Medicine, natural and physical sciences.

This information was received from the Embassy of France, Washington, D. C., and New York; from the French Consulate, Honolulu, T. H.; and from the American Consulate at Hanoi, Indo-China. February, 1948.

JAPAN

AGRICULTURAL EXPERIMENT STATION, Ministry of Agriculture and Forestry, Tokyo.

AGRICULTURAL RESEARCH INSTITUTE, Ofuna.

APPLIED SCIENCE RESEARCH INSTITUTE, Kyoto.

BREWING EXPERIMENT STATION, Ministry of Finance, Tokyo.

CANNING INSTITUTE OF JAPAN, Tokyo.

CHROMOSOMES RESEARCH INSTITUTE, Yamaguchi-ken.

ELECTRONIC SCIENCE RESEARCH INSTITUTE, Osaka.

FERMENTATION RESEARCH INSTITUTE, Ministry of Commerce and Industry, Chiba.

FERTILIZER RESEARCH INSTITUTE, Tokyo.

FISHERIES EXPERIMENT STATION, Tokyo.

FOOD CHEMISTRY RESEARCH INSTITUTE, Osaka.

FOOD RESEARCH INSTITUTE, Ministry of Agriculture and Forestry, Tokyo.

FORESTRY EXPERIMENT STATION, Tokyo.

FUEL RESEARCH INSTITUTE, Ministry of Commerce and Industry, Saitama-ken.

FURUKAWA PHYSICAL AND CHEMICAL RESEARCH INSTITUTE, Tokyo.

GEOLOGICAL SURVEY, Tokyo.

GOVERNMENT CHEMICAL AND INDUSTRIAL RESEARCH LABORATORY, Ministry of Commerce and Industry, Tokyo.

GOVERNMENT HYGIENIC LABORATORY, Ministry of Welfare, Tokyo.

GOVERNMENT RESEARCH INSTITUTE FOR CERAMICS, Ministry of Commerce and Industry, Kyoto.

HAKODATE FISHERIES COLLEGE, Hakodate.

HATTORI FOUNDATION FOR BOTANICAL RESEARCH, Miyazaki-ken.

HIROSHIMA COLLEGE OF SCIENCE AND LITERATURE, Hiroshima.

General sciences, marine biological station, theoretical physics institute.

- HITACHI CENTRAL LABORATORY, Tokyo.
Chemical, electrical, and mechanical technology.
- HOKKAIDO FISHERIES EXPERIMENT STATION, Yoichi.
- HOKKAIDO FORESTRY EXPERIMENT STATION, Sapporo.
- HOKKAIDO INDUSTRIAL RESEARCH INSTITUTE, Sapporo.
- HOKKAIDO UNIVERSITY, Sapporo.
Agricultural sciences, medicine, technological sciences; Akkeshi Marine Biological Station, Algological Research Laboratory, Institute of Low Temperature Research.
- HORTICULTURAL EXPERIMENT STATION, Shizuoka-ken.
- INDUSTRIAL MATERIALS RESEARCH LABORATORY, Fukuoka-ken.
- IWATA INSTITUTE OF PLANT BIOCHEMISTRY, Tokyo.
- KEIO UNIVERSITY, Tokyo.
Engineering, medicine, science.
- KIHARA INSTITUTE FOR BIOLOGICAL RESEARCH, Kyoto.
- KOBAYASHI BACTERIOLOGICAL LABORATORY, Fukushima-ken.
- KOBAYASHI INSTITUTE OF PHYSICAL RESEARCH, Tokyo.
- KYOTO MEDICAL COLLEGE, Kyoto.
- KYOTO UNIVERSITY, Kyoto.
Agriculture, engineering, medicine, science; Beppu Volcanological Hot Springs Institute, Otsu Hydrobiological Station, Seto Marine Biological Station; Institutes of Chemical Research, Engineering Research, and Wood Research.
- KYUSHU UNIVERSITY, Fukuoka.
Agriculture, engineering, medicine, science; Amakusa Laboratory for Marine Biology, Hikosan Biological Research Laboratory, Institute for Wood Research.
- MEGURO RESEARCH INSTITUTE, Tokyo.
Biology, chemical technology.
- NAGOYA RESEARCH INSTITUTE OF SCIENCE AND INDUSTRY, Nagoya.
- NAGOYA UNIVERSITY, Nagoya.
Engineering, science; marine biological station.
- NATIONAL RESEARCH COUNCIL, Tokyo.
Special committees for all fields of research.
- NATURAL RESOURCES RESEARCH INSTITUTE, Tokyo.
- NIHON UNIVERSITY, Tokyo.
Agriculture, engineering.
- NOGUCHI RESEARCH INSTITUTE, Tokyo.
Medical microbiology.
- NOHARA RESEARCH INSTITUTE, Nagoya.
Biochemistry, chemical technology.
- OCEANOGRAPHIC CHEMISTRY INSTITUTE, Kyoto.
- OHARA INSTITUTE FOR AGRICULTURAL RESEARCH, Okayama.
- OSAKA INDUSTRIAL RESEARCH LABORATORY, Ministry of Commerce and Industry, Osaka.
- OSAKA UNIVERSITY, Osaka.
Engineering, medicine, science; Institute of Scientific and Industrial Research.
- PHYSICAL AND CHEMICAL RESEARCH INSTITUTE, Tokyo.
- PHYSICAL INSTITUTE FOR RADIO WAVES, Tokyo.
- SANKYO COMPANY, Tokyo.
Biochemistry, chemical technology.
- SCIENTIFIC FISHERIES INSTITUTE, Hakodate.
- SERICULTURE EXPERIMENT STATION, Tokyo.
- TEA EXPERIMENT STATION, Shizuoka-ken.
- TOHOKU UNIVERSITY, Sendai.
Engineering, medicine, science; Asamushi Marine Biological Station, Mukaiyama Observatory, Oceanchemistry Laboratory; Institutes of Agricultural Research, Glass, Metallurgy, and Scientific Measurements.
- TOKUGAWA BIOLOGICAL INSTITUTE, Tokyo.
- TOKYO COLLEGE OF AGRICULTURE AND FORESTRY, Tokyo.
- TOKYO INSTITUTE OF TECHNOLOGY, Tokyo.
- TOKYO UNIVERSITY, Tokyo.
Agriculture and fisheries, engineering, medicine, science; Botanical Garden, Misaki Marine Biological Station; Institutes of Astronomy, Earthquake Research, Radiation Chemistry, Physiographic Research, Science and Technology.
- TOKYO UNIVERSITY OF LITERATURE AND SCIENCE, Tokyo.
Science; Shimoda Marine Biological Laboratory, Sugadaira High Land Biological Laboratory.
- YAMASHINA ORNITHOLOGICAL INSTITUTE, Tokyo.
- WASEDA UNIVERSITY, Tokyo.
Science and engineering.

This information was taken from Report No. 12 [*Index to Japanese Research and Development during Period July-December, 1946*, published April, 1948] of General Headquarters, Supreme Commander for the Allied Powers, Economic and Scientific Section. This *Index* "lists the detailed subjects of research projects pursued in Japan during the last half of 1946 in each field of science and technology, together with the names of the laboratories which did the work..." The selected list presented here by *Pacific Science* is considerably abridged, and shows only the major institutions in Japan—as best as can be judged from the SCAP *Index*—at which scientific research may be carried on. Many other institutions—like the prefectural experimental stations and colleges—are not

listed here; and it is possible, according to the preface of the SCAP report, that some of the finest small laboratories in Japan have been omitted, unintentionally, because information about them was either unobtainable or because awareness of their quality was lost when their appraising was reduced to the statistics of the report.

Requests for information about institutions or facilities in Japan, and concerning their accessibility to visiting scientists, should be sent to General Headquarters, Supreme Commander for the Allied Powers, Economic and Scientific Section: attention Scientific and Technical Division, APO 500, c/o Postmaster, San Francisco, California.

KOREA

(South Korea Interim Government)

PUSAN FISHERIES COLLEGE, Pusan.

SEOUL NATIONAL UNIVERSITY, Seoul.

Arts and science, engineering, medicine, veterinary medicine.

SEOUL NATIONAL UNIVERSITY, Suwon.

Agriculture.

SEVERANCE MEDICAL COLLEGE, Seoul.

Medicine, nursing, public health.

This information was received from the Department of Education, South Korea Interim Government, USAMGIK, APO 235-2, c/o Postmaster, San Francisco, California. March, 1948.

MEXICO

INSTITUTO DE BIOLOGIA APPLICADA, Ignacio Mariscal 155, Mexico, D. F.

INSTITUTO DE CARDIOLOGIA, Calzada de la Piedad 300, Mexico, D. F.

INSTITUTO NACIONAL DE ANTROPOLOGIE HISTORIA, Córdoba 73, Mexico, D. F.

INSTITUTO PANAMERICANO DE GEOGRAFIA E HISTORIA, Observatoria 192, Tacubaya, D. F.

INSTITUTO DE SALUBRIDAD Y ENFERMEDADES TROPICALES, Plan de San Luis y Prolongación Carpio, Mexico, D. F.

OBSERVATORIO ASTRONOMICO NACIONAL, Tacubaya, D. F.

SOCIEDAD BOTANICA DE MEXICO, Morelos 61, Mexico, D. F.

SOCIEDAD DE ESTUDIOS ASTRONOMICOS Y GEO-FISICOS, Av. Observatorio 192, Tacubaya, D. F.

SOCIEDAD MEXICANA DE ESTUDIOS SOBRE TUBERCULOSIS, Apartado Postal 2425, Mexico, D. F.

UNIVERSIDAD NACIONAL AUTONOMA:

INSTITUTO DE BIOLOGIA, Casa del Lago, Chapultepec, Mexico, D. F.

INSTITUTO DE FISICA, Tacuba 5, Mexico, D. F.

INSTITUTO DE GEOGRAFIA, Lic. Verdad No. 3, Mexico, D. F.

INSTITUTO DE GEOLOGIA, Cipres 176, Mexico, D. F.

INSTITUTO DE MATEMATICAS, Tacuba 5, Mexico, D. F.

INSTITUTO DE QUIMICA, Santa Cruz Atenco, Tacuba, D. F.

This information was received from the [Mexican] Commission for the Promotion and Coördination of Scientific Research, through the American Embassy, Mexico, D. F. February, 1948.

NETHERLANDS INDIES

- ALGEMEEN PROEFSTATION DER ALGEMENE VERENIGING RUBBERPLANTERS SUMATRA OOST-KUST [CENTRAL EXPERIMENT STATION, GENERAL ASSOCIATION OF RUBBER PLANTERS OF THE EAST COAST OF SUMATRA], Medan, Sumatra.
Rubber research.
- ALGEMEEN PROEFSTATION VOOR DEN LANDBOUW [GENERAL AGRICULTURAL EXPERIMENT STATION], Buitenzorg, Java, with a branch station at Makassar, Celebes.
Agricultural technology, botany, phytopathology, soils.
- BOSBOUWPROEFSTATION [GOVERNMENT FOREST RESEARCH INSTITUTE], Buitenzorg, Java.
- CENTRAAL BUREAU VOOR TECHNISCHE ONDERZOEKINGEN [CENTRAL TECHNOLOGICAL LABORATORIES], Karanganjar 55, Batavia, Java.
- CENTRALE VERENIGING TOT BEHEER VAN PROEFSTATIONS VAN DE OVERJARIGE CULTURES IN NEDERLANDSCH-INDIE [ASSOCIATION OF COMBINED EXPERIMENT STATIONS FOR PERENNIAL CROPS IN THE NETHERLANDS INDIES], Central Office, Batavia, Java, with experiment stations at Buitenzorg, Djember, Klaten, and Malang, Java, and at Medan, Sumatra.
Agriculture and agronomy, especially of tobacco.
- DIENST VAN DEN MIJNBOW [DEPARTMENT OF MINES], Molenoliet Oost, Batavia, Java.
Head Office, and section for economic geology.
- DIENST VAN DEN MIJNBOW [DEPARTMENT OF MINES], Wilhelmina Boulevard 7, Bandoeng, Java.
Chemistry, engineering geology, geological exploration, geological museum, paleontology, and volcanology.
- EIJKMAN INSTITUTE [Central Laboratory of the Public Health Service of the Netherlands Indies], Oranje Boulevard 69, Batavia, Java.
Medicine, nutrition, public health.
- GEWESTELIJK LABORATORIUM VAN DEN DIENST DER VOLKSGEZONDHEID [REGIONAL LABORATORY OF THE PUBLIC HEALTH SERVICE], Makassar, Celebes.
- INSTITUUT VOOR LEPROA ONDERZOEK [LEPROSY RESEARCH INSTITUTE], Bandoeng, Java.
- INSTITUUT PASTEUR, Pasteursweg, Bandoeng, Java.
- INSTITUUT VOOR DE ZEEVISSERIJ [FISHERIES RESEARCH INSTITUTE], Pasar Ikan, Batavia, Java.
- KON. BATAVIAASCH GENOOTSCHAP VAN KUNSTEN EN WETENSCHAPPEN [ROYAL BATAVIAN SOCIETY OF ARTS AND SCIENCES], Koningsplein West 12, Batavia, Java.
- KON. MAGNETISCH EN METEOROLOGISCH OBSERVATORIUM [ROYAL METEOROLOGICAL OBSERVATORY], Engelsche Kirkweg 3, Batavia, Java.
- KON. NATUURKUNDIGE VERENIGING IN NEDERLANDSCH-INDIE [ROYAL SCIENCE SOCIETY], Koningsplein Zuid 11, Batavia, Java.
- LABORATORIUM VOOR DE BINNENVISSERIJ [LABORATORY FOR INLAND FISHERIES], Buitenzorg, Java.
- LABORATORIUM VOOR SCHEIKUNDIG ONDERZOEK [LABORATORY FOR CHEMICAL RESEARCH], Buitenzorg, Java.
- LABORATORIUM VOOR TECHNISCHE HYGIENE [LABORATORY FOR TECHNICAL HYGIENE], Schoolweg, Bandoeng, Java.
- S LANDS PLANTENTUIN [GOVERNMENT BOTANICAL GARDENS], Batavia, Java.
Laboratorium voor het Onderzoek der Zee {Laboratory for Marine Biology}.
- S LANDS PLANTENTUIN [GOVERNMENT BOTANICAL GARDENS], Buitenzorg, Java.
Herbarium en Museum voor systematische Botanie {Herbarium and Museum for systematic botany}, Treub Laboratorium {Visitors' Laboratory}, Zoologisch Museum {Zoological Museum}.
- S LANDS PLANTENTUIN [GOVERNMENT BOTANICAL GARDENS], Tjibodas, Java.
Bergtuin Tjibodas {Tjibodas Mountain Garden}.
- MILITAIR HYGIENISCH INSTITUUT [MILITARY HYGIENE INSTITUTE], Hospitalsweg 24, Batavia, Java.
- NEDERLANDS INDISCH INSTITUUT VOOR RUBBERONDERZOEK [NETHERLANDS INDIES INSTITUTE FOR RUBBER RESEARCH], Buitenzorg, Java.
- NEDERLANDS INDISCH STERRENKUNDIGE VERENIGING [NETHERLANDS INDIES ASTRONOMICAL SOCIETY] Oude Hospital weg 14, Bandoeng, and Bosscha Sterrenwacht, Lembang, Java.
- PROEFSTATION VAN DE JAVA-SUIKERINDUSTRIE [EXPERIMENTAL STATION FOR THE JAVA SUGAR INDUSTRY], Passoeroean, Java.
- TOPOGRAFISCHE DIENST [TOPOGRAPHICAL SURVEY], Goenoeng Sahari 89, Batavia, Java.
- UNIVERSITEIT VAN INDONESIA [UNIVERSITY OF INDONESIA], Bandoeng, Java.
Technical sciences and mathematics.

UNIVERSITEIT VAN INDONESIE [UNIVERSITY OF INDONESIA], Batavia, Java.

Medicine.

UNIVERSITEIT VAN INDONESIE [UNIVERSITY OF INDONESIA], Buitenzorg, Java.

Agricultural sciences, veterinary sciences.

VEEARTSENIJKUNDIG INSTITUUT [VETERINARY RESEARCH INSTITUTE], Buitenzorg, Java.

WATERLOOPKUNDIG LABORATORIUM [HYDRODYNAMICS LABORATORY], Hogeschoolweg, Bandoeng, Java.

This information was received from Organisatie Natuurwetenschappelijk Onderzoek i. o. (Organization for Scientific Research in the Netherlands Indies, prep. comm.), Koningsplein Zuid 11, Batavia, Java; from the book, *Science and Scientists in the Netherlands Indies*, edited by Pieter Honig and Frans Verdoorn, and published in 1945 in New York City by the Board for the Netherlands Indies, Surinam, and Curaçao; and from the American Consulate General, Batavia, Java. March, 1948.

NEW CALEDONIA

INSTITUT FRANCAIS D'OCEANIE, Noumea, New Caledonia.

Agricultural entomology, ethnology, geology, marine biology, phytopathology, physical oceanography, and others to be added.

["The purpose of the Institute is . . . research of a scientific nature in the French regions of the Pacific, and a thorough collaboration in all research with foreign scientists to corroborate

observations of general interest. The first program was formed at the suggestion of the South Pacific Commission."—From a letter from the Director of the Institute.]

This information was received from the Director of the Institute, through the American Consulate at Noumea, New Caledonia. February, 1948.

NEW ZEALAND

AGRICULTURE DEPARTMENT, Head Office, Dominion Farmers' Institute Building, Wellington, C. 1. (Communications should be addressed to the Director-General of Agriculture.)

RUAKURA ANIMAL RESEARCH STATION, Ruakura, South Auckland Province.

RUKUHIA SOIL FERTILITY RESEARCH STATION, Rukuhia, South Auckland Province.

SEED TESTING STATION, Palmerston North.

WALLACEVILLE ANIMAL RESEARCH STATION, Wallaceville, Wellington.

AUCKLAND MUSEUM, Auckland.

{Facilities for visiting scientists are not available at present.}

CANTERBURY MUSEUM, Christchurch.

Biology, ethnology.

CARTER OBSERVATORY, Wellington.

CAWTHRON INSTITUTE, Nelson.

Entomology, plant problems, soil.

DOMINION MUSEUM, Wellington.

Natural sciences.

HAWKES BAY MUSEUM, Napier.

Maori ethnology; Russell Duncan Library of exploration in New Zealand, Pacific, and Antarctic.

LEATHER AND SHOE RESEARCH ASSOCIATION, 111 Sydney Street, Wellington.

MARINE DEPARTMENT, Head Office, T. & G. Building, Lambton Quay, Wellington.

MARINE DEPARTMENT, Fishery Research Laboratory, Clark's Building, Wingfield Street, Wellington, N. 1.

NEW ZEALAND FERTILISER MANUFACTURERS' RESEARCH ASSOCIATION, (INC.), P. O. Box 2080, Auckland.

NEW ZEALAND POTTERY AND CERAMICS RESEARCH ASSOCIATION, (INC.), 111 Sydney Street, Wellington.

NEW ZEALAND WOOLEN MILLS RESEARCH ASSOCIATION, (INC.), c/o Prof. E. G. Soper, Chemistry Department, University of Otago, Dunedin.

OTAGO MUSEUM, Dunedin.

Ethnology of New Zealand and of Pacific Islands, especially of New Hebrides.

SCIENTIFIC AND INDUSTRIAL RESEARCH DEPARTMENT [Dominion Government]:

AGRONOMY DIVISION, Private Bag, Christchurch.

APIA OBSERVATORY, Apia, Western Samoa.

Research on terrestrial magnetism, tidal observations, and seismology.

ATOMIC PHYSICS SECTION, 37 Majoribanks Street, Wellington.

AUCKLAND INDUSTRIAL DEVELOPMENT LABORATORIES, P. O. Box 2225, Auckland.

BIOMETRICS SECTION, 37 Majoribanks Street, Wellington.

BOTANY DIVISION, 8 The Terrace, Wellington.

DEFENSE DEVELOPMENT SECTION, P. O. Box 1152, Christchurch.

DOMINION LABORATORIES:
Durham Street West, Auckland.
P. O. Box 1290, Christchurch.
P. O. Box 562, Dunedin.
111 Sydney Street, Wellington.

DOMINION OBSERVATORY, Kelburn, Wellington.

DOMINION PHYSICAL LABORATORY, Gracefield Road, Lower Hutt.

ECONOMIC SURVEYS, 117 Sydney Street, Wellington.

ENTOMOLOGY DIVISION, Cawthron Institute, Nelson.

FATS RESEARCH LABORATORY, Sydney Street, Wellington.

FLAX RESEARCH STATION, Foxton.

GEOLOGICAL SURVEY, Head Office, 156 The Terrace, Wellington.

GEOLOGICAL SURVEY, Volcanological Laboratory, Rotorua.

GRASSLANDS DIVISION, P. O. Box 16, Palmerston North.

HEAD OFFICE, 117 Sydney Street, Wellington. (Address the Secretary.)

INDUSTRIAL PSYCHOLOGY DIVISION, Bowen Street, Wellington.

INFORMATION BUREAU, 117 Sydney Street, Wellington.

IONOSPHERE SECTION, Christchurch.

MAGNETIC OBSERVATORY, Hagley Park, Christchurch.

PLANT CHEMISTRY LABORATORY, P. O. Box 16, Palmerston North.

PLANT DISEASES DIVISION, Private Bag, Auckland.

SOIL BUREAU, 54 Molesworth Street, Wellington.

WILD LIFE SECTION, 117 Sydney Street, Wellington.

STATE FOREST SERVICE, 23 Fitzherbert Terrace, Wellington, N. 1. (Address the Director.)

UNIVERSITY OF NEW ZEALAND, Bowen Street, Wellington. (Address the Registrar.) [The "governing body" of the Universities and Colleges of the Dominion.]

AUCKLAND UNIVERSITY COLLEGE, Auckland. (Address the Registrar.)
Architecture, botany, chemistry, geology, marine biology, physics.

CANTERBURY AGRICULTURAL COLLEGE, Lincoln, Canterbury. (Address the Registrar.)
General.

CANTERBURY UNIVERSITY COLLEGE, Christchurch. (Address the Rector.)
General; mountain botanical station.

MASSEY AGRICULTURAL COLLEGE, Palmerston North. (Address the Principal.)
Agricultural research, dairy research, veterinary sciences.

UNIVERSITY OF OTAGO, Dunedin. (Address the Registrar.)
Bacteriology and public health, dentistry, home science, medicine, mines and metallurgy.

VICTORIA UNIVERSITY COLLEGE, Wellington. (Address the Registrar.)
General.

This information was received from the Information Bureau of the Department of Scientific and Industrial Research of the Dominion Government of New Zealand, through the Legation of New Zealand, Washington, D. C., and the American Legation, Wellington, N. Z.; from the Art Galleries and Museums Association of New Zealand, Wellington; from the Registrars, Principals, and Rectors of the several universities and colleges making up the University of New Zealand; and from UNESCO, Paris. March-May 1, 1948.

NICARAGUA

COLLEGIO CENTRO AMERICA, Granada.

INSTITUTO PEDAGOGICO DE VARONES, Managua, D. N.

This information was received from the American Embassy, Managua, D. N., Nicaragua. March, 1948.

PANAMA

GORGAS MEMORIAL LABORATORY, Apartado 1252, Panamá. (Address the Director.)
Medical entomology.

INSTITUTO NACIONAL DE AGRICULTURA, Divisa. (Address the Director.)
Agricultural research.

MUSEO NACIONAL DE PANAMA, Apartado 662, Panamá. (Address the Director.)
Archaeology, entomology.

This information was received from the American Embassy, Panamá, Republic of Panama. January, 1948.

PERU

ESCUELA SUPERIOR DE CIENCIAS PEDAGOGICAS, Avenida Grau 429, Lima.

ESTACION EXPERIMENTAL AGRICOLA DEL NORTE, Lambayeque.

ESTACION EXPERIMENTAL AGRICOLA DE LA MOLINA (INSTITUTO DE ALTOS ESTUDIOS), Lima.

FACULTAD DE CIENCIAS MEDICAS, Lima.
INSTITUTO DE GENETICA DEL ALGODON DE LA SOCIEDAD NACIONAL AGRARIA, Apartado 350, Lima.

This information was received from the Peruvian Embassy, Washington, D. C., and from UNESCO, Paris. January-April, 1948.

THE PHILIPPINES

BUREAU OF ANIMAL INDUSTRY, Manila.

BUREAU OF FISHERIES, Manila.

BUREAU OF FORESTRY, Manila.

BUREAU OF HEALTH, Manila.

BUREAU OF HOSPITALS, Manila.

BUREAU OF MINES, Manila.

BUREAU OF PLANT INDUSTRY, Manila.

INSTITUTE OF SCIENCE (formerly Bureau of Science), Manila.

NATIONAL MUSEUM, Manila.

PHILIPPINE GENERAL HOSPITAL, Manila.

UNIVERSITY OF THE PHILIPPINES, Manila.

WEATHER BUREAU, Manila.

This information was received from the Institute of Science, Manila, through the Philippine Consulate-General, Honolulu, T. H. February, 1948.

EL SALVADOR

CENTRO NACIONAL DE AGRONOMIA, Santa Tecla, Depto. La Libertad.
Agricultural research.

DIRECCION GENERAL DE SANIDAD, Calle Arce No. 87, San Salvador.

Public health and tropical diseases.

UNIVERSIDAD AUTONOMA DE EL SALVADOR, Ave. Cuscatlán y 2a. Calle Poniente, San Salvador.

Architecture and engineering, chemistry, dentistry, medicine, pharmacy.

This information was received from the Embassy of El Salvador, Washington, D. C., and from the American Embassy, San Salvador, El Salvador. January, 1948.

SIAM

THE CHULALONGKON UNIVERSITY, Bangkok.
General.

DEPARTMENT OF AGRICULTURE EXPERIMENT STATION, Bangkok.

Agricultural research.

LEPROSY CONTROL DEPARTMENT AND LEPROSY HOSPITAL, Department of Public Health, Bangkok.

PASTEUR INSTITUTE, Saladaeng, Bangkok.
Bacteriology, serology.

This information was received from the Royal Siamese Embassy, Washington, D. C., and from the American Embassy, Bangkok, Siam. February, 1948.

SIBERIA (U.S.S.R.)

No information available.

UNITED STATES

[It would be impossible, of course, to name every institution in the United States which has some concern with science in the Pacific. In this list only the major institutions in the Pacific states of the United States and in the territories of Alaska and Hawaii have been noted. Information concerning the institutions in Hawaii was taken principally from *Pacific Science* 1: 119-126, 1947, and for Alaska and the Pacific states from the catalogues of the several institutions included in the list.]

ALASKA

UNIVERSITY OF ALASKA, Fairbanks.

General, especially archaeology, geophysics.

CALIFORNIA

CALIFORNIA ACADEMY OF SCIENCE, San Francisco.

General.

CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena.

General; Arms Laboratory of Geological Sciences, Bridge Laboratory of Physics, Chemical Engineering Laboratory, Experiment Station, Gates and Crellin Laboratory of Chemistry, High-Potential Research Laboratory, Hydrodynamics Laboratory, Kellogg Laboratory of Radiation, Kerckhoff Laboratories of the Biological Sciences, Kerckhoff Marine Biological Laboratory (at Corona del Mar), Mudd Laboratory of the Geological Sciences, Robinson Laboratory of Astrophysics, Seismological Research Laboratory, and others.

COLLEGE OF THE PACIFIC, Stockton.

General; Pacific Marine Station of Biological Sciences at Dillon Beach.

POMONA COLLEGE, Claremont.

General; Marine Laboratory at Laguna Beach.

STANFORD UNIVERSITY, Palo Alto.

General; Hopkins Marine Station at Pacific Grove; Natural History Museum.

STATE OF CALIFORNIA, DIVISION OF FISH AND GAME, FISHERIES LABORATORY, Terminal Island, San Pedro.

UNIVERSITY OF SOUTHERN CALIFORNIA, 3551 University Avenue, Los Angeles 7.

General; Allan Hancock Foundation for Biological Sciences.

UNIVERSITY OF CALIFORNIA.

["The University of California is composed of academic colleges, professional schools, divisions, departments of instruction, museums, libraries, research institutes, bureaus, and foundations, and the University of California Press, situated on eight different campuses throughout the State, namely: Berkeley, Los Angeles, San Francisco, Davis, Riverside, Mount Hamilton, La Jolla, and Santa Barbara."—*Catalogue, University of California, 1948.*]

I. AT BERKELEY.

General; Anthropological Museum, California Museum of Vertebrate Zoology, Crocker Radiation Laboratory, Institute of Experimental Biology, Museum of Paleontology.

II. AT LOS ANGELES.

General; Medical Department.

III. AT SAN FRANCISCO.

Dentistry, medicine, nursing, public health; Hooper Foundation for Medical Research.

IV. AT DAVIS.

Agricultural research, veterinary sciences.

V. AT RIVERSIDE.

Agricultural research; Citrus Experiment Station.

VI. AT MOUNT HAMILTON.

Lick Observatory.

VII. AT LA JOLLA.

Scripps Institution of Oceanography.

U. S. FISH AND WILDLIFE SERVICE, Stanford University, Palo Alto.

South Pacific Investigations in Ichthyology.

HAWAII

BERNICE P. BISHOP MUSEUM, Honolulu 35.

Collection, preservation, and study of Hawaiian and Pacific material in ethnology and the natural sciences; departments and collections of botany, entomology, malacology (both terrestrial and marine), marine zoology; large collections in ichthyology, ornithology, and geology. Library, chiefly on Pacific ethnology and natural history.

CALIFORNIA PACKING CORPORATION, P. O. Box 149, Honolulu 10.

Canning operations.

HAWAII MARINE LABORATORY, Coconut Island, Oahu. [Communications should be addressed to the Department of Zoology and Entomology, University of Hawaii, Honolulu 10.]

Marine biology, oceanography.

HAWAII NATIONAL PARK, U. S. Department of the Interior, National Park Service, Hawaii National Park, Hawaii.

Natural history.

HAWAIIAN PINEAPPLE COMPANY, LIMITED, Honolulu 1.

Research in growing and processing of pineapples and other subtropical crops.

HAWAIIAN SUGAR PLANTERS' ASSOCIATION EXPERIMENT STATION, 1527 Keeaumoku Street, Honolulu 4.

Agriculture, botany and forestry, chemistry, climatology, entomology, genetics, geology, pathology, physiology and biochemistry, sugar technology.

HAWAIIAN TUNA PACKERS, LIMITED, P. O. Box 238, Honolulu.

Research in oceanic fisheries methods.

HAWAIIAN VOLCANO OBSERVATORY (a branch of the U. S. Geological Survey collaborating with the Hawaiian Volcano Research Association and the University of Hawaii), Hawaii National Park, Hawaii.

Measurements and observations on active volcanoes; research in the chemistry and physics of volcanoes.

HAWAIIAN VOLCANO RESEARCH ASSOCIATION, c/o University of Hawaii, Honolulu 10.

Research in physical processes of Hawaiian volcanoes. (The Directors will receive applications at any time from research investigators holding doctorate degrees who desire to pursue specialized studies in Hawaii in seismology, volcanology, and volcanological oceanography. Persons of advanced grade holding fellowships from other institutions may be assisted in travel

expenses and may be provided with apparatus or use of facilities. Inquiries should be addressed to Dr. T. A. Jaggar, Scientific Director, at University of Hawaii, Honolulu 10, Hawaii.)

HONOLULU BOARD OF WATER SUPPLY, P. O. Box 3410, Honolulu 1.

Bacteriology, chemistry, geology.

LIBBY, MCNEILL AND LIBBY, P. O. Box 1140, Honolulu 7.

Pineapple production and processing.

PACIFIC CHEMICAL AND FERTILIZER COMPANY, P. O. Box 48, Honolulu 10.

Agricultural chemistry.

PINEAPPLE RESEARCH INSTITUTE OF HAWAII, P. O. Box 3166, Honolulu 2.

Agricultural engineering, chemistry, entomology, genetics, meteorology, plant pathology, plant physiology, as related to production of pineapple plants and fruit.

TERRITORIAL BOARD OF AGRICULTURE AND FORESTRY, P. O. Box 3319, Honolulu 1.

Animal industry, entomology, fish and game, forestry.

TERRITORIAL BOARD OF HEALTH, Honolulu.

Public health laboratories on major islands of Hawaiian group.

U. S. BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE, University of Hawaii Campus, P. O. Box 340, Honolulu 9.

Fruitfly investigations.

U. S. COAST AND GEODETIC SURVEY, Pacific District Headquarters, 244 Federal Office Building, Honolulu.

U. S. GEOLOGICAL SURVEY, Division of Surface Waters, 225 Federal Office Building, Honolulu.

U. S. GEOLOGICAL SURVEY, Ground Water Division, 333 Federal Office Building, Honolulu.

U. S. GEOLOGICAL SURVEY, Hawaiian Volcano Observatory. See HAWAIIAN VOLCANO OBSERVATORY.

U. S. WEATHER BUREAU, Federal Office Building, Honolulu.

UNIVERSITY OF HAWAII, P. O. Box 18, Honolulu 10.

General; Library; Marine Biological Laboratory; cooperative associations with U. S. Bureau of Entomology and Plant Quarantine, the Pineapple Research Institute, the Hawaiian Sugar Planters' Association Experiment Station, the University of Hawaii Agricultural Experiment Station, the B. P. Bishop Museum, and many other private and governmental agencies in Hawaii.

UNIVERSITY OF HAWAII AGRICULTURAL EXPERIMENT STATION, P. O. Box 18, Honolulu 10.

Agricultural chemistry, agricultural engineering, agronomy, animal husbandry, entomology, horticulture, nutrition, parasitology, plant pathology, plant physiology, poultry husbandry, vegetable crops.

OREGON

OREGON STATE COLLEGE, Corvallis.

General.

UNIVERSITY OF OREGON, Eugene.

General; Condon Museum of Geology, Museum of Natural History, Oregon State Museum of Anthropology.

UNIVERSITY OF OREGON, Portland.
Medicine, public health.

WASHINGTON

MUSEUM OF THE STATE OF WASHINGTON, Seattle.

General, especially anthropology and vertebrate zoology.

STATE COLLEGE OF WASHINGTON, Pullman.

General.

UNIVERSITY OF WASHINGTON, Seattle 5.

General; Oceanographic Laboratories at Seattle and Friday Harbor.

U. S. FISH AND WILDLIFE SERVICE, Mountlake Laboratory, Seattle.